

Title (en)

Apparatus for parallel decoding of digital video signals

Title (de)

Vorrichtung zur parallelen Dekodierung von digitalen Bildsignalen

Title (fr)

Appareil pour le décodage en parallèle de signaux vidéo numériques

Publication

EP 0720374 A1 19960703 (EN)

Application

EP 94120967 A 19941230

Priority

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Abstract (en)

A novel apparatus for decoding an encoded digital video signal is able to carry out a parallel processing, without using a shared memory system. This apparatus comprises detector for detecting slice start codes from the encoded digital video signal and generating a slice start detection signal, control unit for counting the number of the slice start codes of the encoded bit stream, and for generating a control signal in response to the counted number of the slice start codes, switching block for dividing video frame data into two subframes, two first-in first-out(FIFO) buffers for storing the divided video frame data, a image processing device for decompressing the encoded digital video signal and reproducing the original video image signal, and frame formatter for coupling the reproduced original video image signal. <IMAGE>

IPC 1-7

H04N 7/26; **H04N 7/50**

IPC 8 full level

H04N 7/26 (2006.01); **H04N 7/50** (2006.01)

CPC (source: EP)

H04N 19/436 (2014.11); **H04N 19/61** (2014.11); **H04N 19/30** (2014.11)

Citation (search report)

- [X] EP 0479511 A2 19920408 - VICTOR COMPANY OF JAPAN [JP]
- [A] WO 9111074 A1 19910725 - BRITISH BROADCASTING CORP [GB]
- [X] EP 0577310 A2 19940105 - CANON KK [JP]
- [X] EP 0614317 A2 19940907 - SONY CORP [JP]
- [A] US 5212742 A 19930518 - NORMILE JAMES O [US], et al
- [A] E.J. LALOYA-MONZON ET AL.: "DSP Parallel Architecture for Image Compression", 6TH MEDITERRANEAN ELECTROTECHNICAL CONFERENCE, vol. I, 22 May 1991 (1991-05-22), LJUBLJANA, SLOVENIA, pages 428 - 431, XP000289486

Cited by

CN104768021A; US7688978B2; EP0817501A3; US7215706B2; US9832245B2; WO0193596A1; US7882517B2; US8051443B2; US9729830B2; US11019309B2; US8027469B2; US8027470B2; KR100282389B1; US10044779B2; US10523726B2; US10693930B2; US10977330B2; US7602912B2; US7751561B2; US7760879B2; US7848520B2; US9729594B2; US9742824B2; US9762636B2; US10298639B2; US10298638B2; US10567453B2

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